

PCT

INTERNATIONAL SEARCH REPORT

(PCT Article 18 and Rules 43 and 44)

Applicant's or agent's file reference	FOR FURTHER see Notification of Transmittal of International Search Report (Form PCT/ISA/220) as well as, where applicable, item 5 below.							
JED1230	ACTION	T						
International application No.	International filing date (day/month/year)	(Earliest) Priority Date (day/month/year)						
PCT/GB 03 <u>/0</u> 5721	24/12:/2:003	27/12/2002						
Applicant								
MECON LIMITED								
This International Search Report has been prepared by this International Searching Authority and is transmitted to the applicant according to Article 18. A copy is being transmitted to the International Bureau.								
This International Search Report consists of a total of sheets. X It is also accompanied by a copy of each prior art document cited in this report.								
Basis of the report								
 a. With regard to the language, the language in which it was filed, unli 	international search was carried out on the bas ess otherwise indicated under this item.	sis of the international application in the						
the international search w Authority (Rule 23.1(b)).	ras carried out on the basis of a translation of the	he international application furnished to this						
was carried out on the basis of the	b. With regard to any nucleotide and/or amino acid sequence disclosed in the international application, the international search was carried out on the basis of the sequence listing : contained in the international application in written form.							
	mational application in computer readable forn	n.						
furnished subsequently to	this Authority in written form.	•						
furnished subsequently to	this Authority in computer readble form.							
the statement that the sub international application a	osequently furnished written sequence listing do s filed has been furnished.	oes not go beyond the disclosure in the						
the statement that the info furnished	rmation recorded in computer readable form is	s identical to the written sequence listing has been						
2. Certain claims were four	nd unsearchable (See Box I).							
3. X Unity of invention is lack	king (see Box II).							
4 Välish roomed to the tiple	•							
With regard to the title, The text is approved as su	hmitted by the applicant							
	hed by this Authority to read as follows:							
5. With regard to the abstract,								
the text is approved as su	bmitted by the applicant.							
X the text has been establish within one month from the	hed, according to Rule 38.2(b), by this Authorite date of mailing of this international search rep	ty as it appears in Box III. The applicant may, port, submit comments to this Authority.						
6. The figure of the drawings to be publi	ished with the abstract is Figure No.	1						
X as suggested by the applic		None of the figures.						
because the applicant faile	•	·						
because this figure better	characterizes the invention.							



ational application No.

PCT/GB 03/05721

Box III TEXT OF THE ABSTRACT (Continuation of item 5 of the first sheet)

A method of determining the presence and location of leaks in a pipeline (2) comprising inserting a leak location device capable of detecting and recording the occurrence of noise into the flow of fluid (1) within the pipeline (2); allowing the leak location device to travel through the pipeline (2) with the fluid flow; causing the leak location device to detect and record noise in the fluid; and causing the leak location device to record the time at which noise is detected. Generally the leak location device is retrieved from the pipeline (2) downstream to its insertion point.

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CLASSIFICATION OF SUBJECT MATTER PC 7 G01M3/24 G01M IPC 7 G01M3/00 According to International Patent Classification (IPC) or to both national classification and IPC Minimum documentation searched (classification system followed by classification symbols) IPC 7 GO1M Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched Electronic data base consulted during the international search (name of data base and, where practical, search terms used) EPO-Internal C. DOCUMENTS CONSIDERED TO BE RELEVANT Category ° Citation of document, with indication, where appropriate, of the relevant passages Relevant to claim No. Α US 2 884 624 A (DEAN HOWARD J. EN ET AL) 1,17,28 28 April 1959 (1959-04-28) non-unity document column 1 - column 3; figures 1,2 X US 3 691 819 A (ROBERT J. GUEST) 28 - 3019 September 1972 (1972-09-19) 32,33 column 2, line 34 - column 4, line 55; 12-16, figures 1,2 22,31 US 3 754 275 A (CARTER N, US ET AL) X 1-4,9, 21 August 1973 (1973-08-21) 11. 17-21 23-26 column 2, line 29 - column 4, line 63: figure 1 Further documents are listed in the continuation of box C. Χ Patent family members are listed in annex. Special categories of cited documents: "T" later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the "A" document defining the general state of the art which is not considered to be of particular relevance invention "E" earlier document but published on or after the international "X" document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to 'L' document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another involve an inventive step when the document is taken alone "Y" document of particular relevance; the claimed invention citation or other special reason (as specified) cannot be considered to involve an inventive step when the document is combined with one or more other such docudocument referring to an oral disclosure, use, exhibition or other means ments, such combination being obvious to a person skilled document published prior to the international filing date but later than the priority date claimed "&" document member of the same patent family Date of the actual completion of the international search Date of mailing of the international search report 19 April 2005 26/04/2005 Name and mailing address of the ISA Authorized officer European Patent Office, P.B. 5818 Patentlaan 2 NL – 2280 HV Rijswijk Tel. (+31–70) 340–2040, Tx. 31 651 epo nl, Fax: (+31–70) 340–3016 Andreassen, J

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Internal Application No PCI/GB 03/05721

		PCT/GB 0:	3/05721
	ation) DOCUMENTS CONSIDERED TO BE RELEVANT		
Category °	Citation of document, with indication, where appropriate, of the relevant passages		Relevant to claim No
x	US 3 508 433 A (WILLIAM M. BUSTIN) 28 April 1970 (1970-04-28)		1-3,9, 11, 17-20,
	column 3, line 54 - column 6, line 2; figures 1,3,8 column 7, line 23 - line 38	· · · · · · · · · · · · · · · · · · ·	23,27
	US 3 409 897 A (BOSSELAAR HENDRIK ET AL) 5 November 1968 (1968-11-05)	:	1-6, 9-11, 17-20,
	column 2, line 13 - line 16; figures 1,3,4		23,27 12-16,
	column 3, line 5 - column 5, line 10	•	22,31
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national application No. PCT/GB 03/05721

Box I Observations where certain claims were found unsearchable (Continuation of item 1 of first sheet)
This International Search Report has not been established in respect of certain claims under Article 17(2)(a) for the following reasons:
Claims Nos.: because they relate to subject matter not required to be searched by this Authority, namely:
2. Claims Nos.: because they relate to parts of the International Application that do not comply with the prescribed requirements to such an extent that no meaningful International Search can be carried out, specifically:
3. Claims Nos.: because they are dependent claims and are not drafted in accordance with the second and third sentences of Rule 6.4(a).
Box II Observations where unity of invention is lacking (Continuation of item 2 of first sheet)
This International Searching Authority found multiple inventions in this international application, as follows:
see additional sheet
As all required additional search fees were timely paid by the applicant, this International Search Report covers all searchable claims.
2. X As all searchable claims could be searched without effort justifying an additional fee, this Authority did not invite payment of any additional fee.
3. As only some of the required additional search fees were timely paid by the applicant, this International Search Report covers only those claims for which fees were paid, specifically claims Nos.:
4. No required additional search fees were timely paid by the applicant. Consequently, this International Search Report is restricted to the invention first mentioned in the claims; it is covered by claims Nos.:
Remark on Protest The additional search fees were accompanied by the applicant's protest.
No protest accompanied the payment of additional search fees.

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FURTHER INFORMATION CONTINUED FROM PCT/ISA/ 210

This International Searching Authority found multiple (groups of) inventions in this international application, as follows:

1. claims: 28-33

A leak location system comprising a leak detection device arranged to collect acoustical data and at least one monitoring means capable of transmitting signals and the leak detection device is capable of receiving the transmitted signals (claim 28).

2. claims: 1-27

A self contained leak location device having an oval shape suitable for travelling in a pipeline, wherein the center of buoyancy and the center of gravity are seperated from one another along the long axis (claim 8).

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ation on patent family members

Int Polication No PCT/GB 03/05721

Patent document cited in search report		Publication date		Patent family member(s)	Publication date
US 2884624	Α	28-04-1959	NONE		
US 3691819	A .	19-09-1972	CA CA DE JP NL	937318 A1 958110 A2 2200001 A1 51047359 B 7200039 A	20-11-1973 19-11-1974 20-07-1972 14-12-1976 06-07-1972
US 3754275	Α	21-08-1973	CA DE FR GB NL	955216 A1 2244463 A1 2153933 A5 1346149 A 7212610 A	24-09-1974 22-03-1973 04-05-1973 06-02-1974 20-03-1973
US 3508433	A	28-04-1970	BE CH DE FR GB NL	691146 A 467446 A 1290773 B 1500664 A 1121824 A 6617566 A ,B	13-06-1967 15-01-1969 03-11-1967 31-07-1968 15-06-1967
US 3409897	Α	05-11-1968	NONE		